

44. (new) The device of Claim 41 wherein the material is manufactured from a boron nitride fusion source.

45. (new) The device of Claim 42 wherein the material is manufactured from a boron nitride fusion source.

46. (new) The device of Claim 41 wherein the material is silanated.

10 47. (new) The device of Claim 41 wherein an exposed surface of the material comprises at least 50% silicon dioxide.

11 48. (new) The device of Claim 41 wherein an exposed surface of the material has been modified by a chemical reaction.

12 49. (new) The device of Claim 41 wherein an oligonucleotide is bound to the material.

13 50. (new) The device of Claim 41 wherein DNA is bound to the material.

14 51. (new) The device of Claim 41 wherein RNA is bound to the material.

15 52. (new) The device of Claim 41 wherein a peptide is bound to the material.

16 53. (new) The device of Claim 41 wherein an oligosaccharide is bound to the material.

17 54. (new) The device of Claim 41 wherein a protein is bound to the material.

18 55. (new) The device of Claim 41 wherein an antibody is bound to the material.

627 56. (new) The device of Claim 41 wherein the material is manufactured from about 1% to about 50% by weight alumina.

6 57. (new) The device of Claim 56 wherein the material is further manufactured from about 50% to about 98% by weight silica.

7 58. (new) The device of Claim 57 wherein the material is further manufactured from about 1% to about 5% by weight of a fusion source comprising boron.

8 59. (new) The device of Claim 41 wherein the material has a mean pore diameter greater than about 10 microns.

9 60. (new) The device of Claim 41 wherein the material has a density ranging from about 3.5 to about 5.5 pounds per cubic foot.

9 61. (new) The device of Claim 41 wherein the material has a density of at least 6 pounds per cubic foot.

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REMARKS

This Application has been carefully reviewed in light of the Office Action mailed November 4, 2002 (Paper No. 6). At the time of the Office Action, Claims 1-40 were pending in this Application. Claims 1-18 were rejected.

Election/Restriction Requirement

In the Office Action mailed July 2, 2002, the Examiner set forth a election restriction requirement of the claimed inventions between Claims 1-18, drawn to a diagnostic device (classified in class 435, subclass 287.1), and Claims 19-40, drawn to a method of detection (classified in class 435, subclass 7.9). Applicant made a provisional election with traverse to prosecute the invention of Claims 1-18. Applicant hereby